Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method of granting access to content on a storage medium, said method comprising the steps of:

obtaining cryptographic data from a property of the storage medium;

reading helper data from the storage medium; and granting the access based on an application of a delta-contracting function to the cryptographic data and the helper data based on an output value, wherein the helper data defines ranges of values for the cryptographic data and the delta-contracting function defines a corresponding output value for each range of values for the cryptographic data.

2. (Previously presented) The method as claimed in claim 1, wherein said method further comprises the step of: deriving a decryption key for decrypting the content at least from the application of the delta-contracting function.

- 3. (Previously presented) The method as claimed in claim 2, wherein said step of deriving a decryption key further derives the decryption key from data supplied by a playback or recording apparatus.
- 4. (Currently amended) The method as claimed in claim 1, wherein the access is granted if the output value of the delta-contracting function corresponds to a control value recorded on the storage medium.
- 5. (Previously presented) The method as claimed in claim 4, wherein said method further comprises the steps of:

applying a cryptographic function to the output of the deltacontracting function; and

comparing the output of the cryptographic function to the control value.

- 6. (Previously presented) The method as claimed in claim 5, wherein the cryptographic function is a one-way hash function.
- 7. (Previously presented) The method as claimed in claim 1, wherein the delta-contracting function involves a combination of a matrix multiplication on the cryptographic data, a linear addition of at least a portion of the helper data, a quantization in which the quantization areas are defined by a portion of the helper data, and error correction decoding.
- 8. (Currently amended) A device arranged for granting access to content on a storage medium, said device comprising:

first reading means for obtaining cryptographic data from a property of the storage medium;

second reading means for reading helper data from the storage medium; and

access control means for granting the access based on an application of a delta-contracting function to the cryptographic data and the helper data based on an output value, wherein the helper data defines ranges of values for the cryptographic data and

the delta-contracting function defines a corresponding output value for each range of values for the cryptographic data.

9. (Currently amended) A playback and/or recording apparatus comprising:

playback/recording means for playing back and/or recording data to a storage medium; and

a device arranged for granting access to content on the storage medium, said device comprising:

first reading means for obtaining cryptographic data from a property of the storage medium;

second reading means for reading helper data from the storage medium; and

access control means for granting access to the storage medium by the playback/recording means based on an application of a delta-contracting function to the cryptographic data and the helper data based on an output value, wherein the helper data defines ranges of values for the cryptographic data and the delta-contracting function defines a corresponding output value for each range of values for the cryptographic data.

- 10. (Previously presented) A computer-readable medium having a computer program product recorded thereon, said computer program product being arranged to cause a processor to execute the method of claim 1.
- 11. (New) The method as claimed in claim 1, wherein the property of the storage medium is a physical property of the storage medium.
- 12. (New) The method as claimed in claim 11, wherein the physical property of the storage medium is variations in a physical parameter of the storage medium.
- 13. (New) The method as claimed in claim 12, wherein the variations in the physical parameter of the storage medium are naturally occurring variations in the physical parameter.

- 14. (New) The method as claimed in claim 11, wherein the physical property of the storage medium is wobble of the storage medium.
- 15. (New) The method as claimed in claim 11, wherein the storage medium is a pressed storage medium and the physical property of the storage medium is an aberration that occurred during the pressing process of the storage medium.
- 16. (New) The method as claimed in claim 1, wherein the storage medium includes disordered, scattering media, the method comprising acts of:

exciting the disordered, scattering media with a laser beam; and

receiving a resulting light pattern from the excited disordered, scattering media, wherein the physical property of the storage medium is determined from the received resulting light pattern.